This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1 (canceled)

2 (previously presented). The mixture of claim 33 comprising at least ten chemical compounds.

3 (previously presented). The mixture of claim 33 comprising at least fifteen chemical compounds.

4 (previously presented). The mixture of claim 33 wherein said chemical compounds are within 20 mole percent of equimolarity in said mixture.

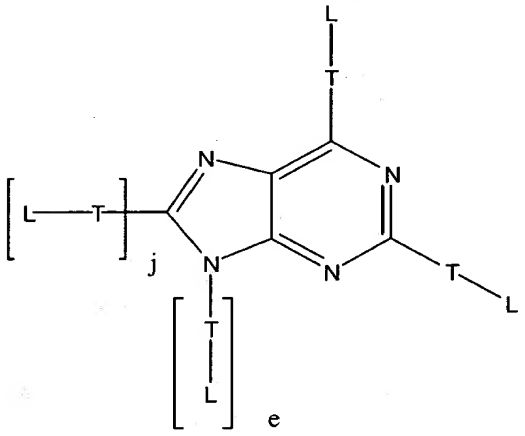
5 (currently amended). The mixture of claim 33 wherein said ~~heterocyclic scaffold bears~~ mixture comprises compounds of structure II that bear at least three functionalizable atoms.

6 (canceled)

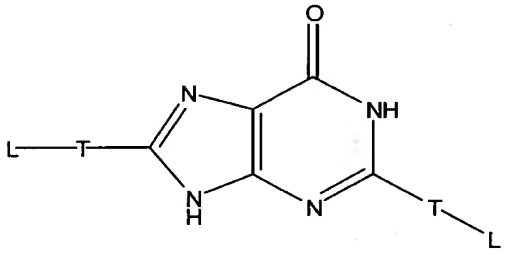
7 (previously presented). The mixture of claim 33 wherein at least one of the functionalizable atoms on said heterocyclic scaffold is nitrogen, oxygen, or sulfur.

8-32 (canceled)

33 (previously presented). A mixture comprising a set of at least six chemical compounds having a common heterocyclic scaffold bearing functionalizable atoms, wherein said set of compounds is represented by one of structures II or III:



II



III

each tether moiety T is -NH(R^1)NH-, -NH(R^1)O-, -NHR^{2}NH-, -NHR^2SO_2NH-, -NHR^1-, -N(R^4)$_2$, -N=N-, O, S, Se, -P(=O)(O)$_2$, NH, OR^2, OR^3, malonato, pyrrolidinyl, piperidinyl, piperazinyl, morpholino, imidazolyl, pyrrolyl, pyrazolyl, indolyl, 1H-indolyl, α-carbolinyl, carbazolyl, phenothiazinyl, phenoxazinyl, tetrazolyl, or triazolyl;

R^1 is alkylene; R^2 is aryl; R^3 is H or C_1-C_{10} alkyl; R^4 is alkyleneoxy; and

each chemical substituent L is, independently, C_1-C_{10} alkyl, substituted C_1-C_{10} alkyl, C_2-C_{10} alkenyl, substituted C_2-C_{10} alkenyl, C_2-C_{10} alkynyl, substituted C_2-C_{10} alkynyl, C_4-C_7 carbocyclic alkyl, substituted C_4-C_7 carbocyclic alkyl, C_4-C_{10} alkenyl carbocyclic, substituted C_4-C_{10} alkenyl carbocyclic, C_4-C_{10} alkynyl carbocyclic, substituted C_4-C_{10} alkynyl carbocyclic, C_6-C_{14} aryl, substituted C_6-C_{14} aryl, heteroaryl, substituted heteroaryl, a nitrogen, oxygen or sulfur containing heterocycle, a substituted nitrogen, oxygen or sulfur containing heterocycle, a mixed heterocycle, or a substituted mixed heterocycle; wherein each of the substituent groups is selected from a group consisting of alkyl, alkenyl, alkynyl, aryl, hydroxyl, alkoxy, benzyl, nitro, thiol, thioalkyl, thioalkoxy and halo; or L is, independently, phthalimido, an ether having 2 to 10 carbon atoms and 1 to 4 oxygen or sulfur atoms, hydrogen, halogen, hydroxyl, thiol, keto, carboxyl, NR^1R^2, $CONR^1$, amidine, guanidine, glutamyl, nitro, nitrate, nitrile, trifluoromethyl, trifluoromethoxy, NH-alkyl, N-dialkyl, O-aralkyl, S-aralkyl, NH-aralkyl, azido, hydrazino, hydroxylamino, sulfoxide, sulfone, sulfide, disulfide, silyl, a nucleosidic base, an amino acid side chain, or a carbohydrate; and

each j and e is 0 or 1, with the sum of j and e equal to 1.

34-36 (canceled)